

*The Newsletter of***The Mid-Michigan Section of AIChE**

American Institute of Chemical Engineers

Mission: To provide opportunities to continuously develop our members professionally – while working with the community to improve the understanding of science and engineering and their impact on society.

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The Annual Spring Banquet was held May 20 at the Great Hall in Midland. Laura Dietsche, 2014-2015 Section Chair, is shown presiding over the evening's events. See pages 4-9 for more photos.

Words from the Chair...

For many of us, summer is virtually synonymous with relaxation and all of the warm weather recreational activities that the mid-Michigan area has to offer even as we pursue the diverse technical activities that the chemical engineering profession encompasses. For the MMAICChE executive council, it's also a time of transition and planning. I'm honored to serve as section Chair for 2015/2016, and would like to thank Laura Dietsche for her outstanding leadership as 2014/2015 Chair and her continued involvement as Past Chair. I'd also like to thank our 2014/2015 Past Chair, Maxine Cottrell, for her wise council and support from afar as she continues to enjoy an assignment in France. Transitioning to a Director role is Shawn Feist, who has held a number of leadership positions in the section (including 2012/2013 section chair), succeeding Tim Frank who continues his service to our section as newsletter editor. Shawn joins Norm Lake and Paul Kehl as a Director. Defne Kayrak-Talay assumed the role of Program Committee chair during the past year, succeeding Vishesh Shah who has returned to India to pursue new opportunities, and we wish Vishesh well in his future endeavors and thank him for the outstanding job he did organizing our seminar program. Anshul Agrawal, who had a major impact on our section as leader of our Membership committee and co-chair of our Young Professionals committee, has accepted a new assignment with Dow Chemical in Texas. Greg Theunick from Dow Corning has assumed leadership of the Membership committee, and the Young Professionals committee is now led by chair Josh Katzenstein and co-chair Alan Stottlemeyer, both of Dow Chemical. Alan has also assumed the co-chair position of our Educational Outreach committee. Kirsten Gooshaw, who previously co-chaired our Young Professionals committee and was our section webmaster, has also accepted an assignment in Texas and has been succeeded as webmaster by Kyle Andrews of Dow Chemical. Kyle has managed another transition for the section, as our web site is now being hosted by AIChE and can now be accessed at <http://www.aiche.org/community/sites/local-sections/mid-michigan>.

Fortunately, we also have continuity in a number of key positions. Bruce Holden and Eric Stangland continue to provide exemplary service as our section Secretary and Treasurer, respectively. Mike Durisin, our Publicity chair; Nancy Tseng, our Scholarship chair; Rich Helling, our Continuing Education chair; Mike Molnar, our Awards chair; and Dewey Yin, our Educational Outreach chair have given many years of outstanding service to the section and continue to make sure that each of these functions runs smoothly and effectively. As any of you who have been involved in volunteer positions know, the real work of an organization such as MMAICChE is primarily accomplished virtually behind the scenes by the committee chairs and the secretary and treasurer, and we have been fortunate to have such a capable team to oversee all of our section activities.

A highlight of the 2014/2015 program year was the home beer brewing contest co-sponsored by the Young Professionals committees of both MMAICChE and the Midland local section of ACS, with prizes graciously donated by Hop Head Brew Supply (Bay City), Michigan Brew Supply (Midland), and WhichCraft Tap Room, which hosted the final judging and tasting event. Fifty teams submitted 95 entries in the competition, and awards were made in a number of categories. In fact, the response was so overwhelming that the final tasting event had to be limited to team members and a guest to keep from exceeding WhichCraft Tap Room's capacity, although Rich Helling and I did represent MMAICChE at the event (and sampled a number of fine beers!). The success of this competition has received attention from a number of other AIChE local sections who are interested in holding similar events and we have been providing them with details on how the competition was organized and conducted.

Our Educational Outreach committee led by Dewey Yin was also very busy during the year. In September we participated in the Great Lakes Bay Regional Science and Engineering Festival where 27 volunteers staffed our exhibit and conducted hands-on demonstrations of a variety of chemical engineering principles and operations. We also conducted an extensive outreach program for local middle schools, presenting hands-on demonstrations of surface tension concepts to over 750 students along with a solids handling demonstration for Bullock Creek High School.

Our 2014/2015 seminar program included a diverse and interesting series of events, starting with our kick-off get-together at Oscar's in Midland, with musical entertainment provided by Bill Heeschen (keyboard) and John Anderson (saxophone) and we thank John for donating the proceeds from sales of his CDs to MMAICHE. In October, we were treated to a presentation by Michigan State University's Chem-E Car team, who explained the rules and showed video of the competition. November's presentation by Jozef Bicerano of Bicerano and Associates Consulting Inc. informed us about feedstock selection for environmentally sustainable polymer development, and in December we learned about the use of both aerial and land-based drones in inspection of industrial equipment and installations from Bill Donberg of Aetos Group, Inc. We started the new year with a presentation by Dan Hickman of Dow Chemical Co. (and our 2014 Chemical Engineer of the Year) on the use of laboratory reactor data to scale up industrial trickle bed hydrogenations. In February, Margie Pierce of Sourcing Engineers Inc. discussed entrepreneurship in engineering, and how she used her industrial experience to launch a consulting career. Aaron Johnson of Dow's Water and Process Solutions business talked to us about the potential and controversies of fracking in March, and April brought a seminar from Joe VanderKelen of SMI Snow Makers of Midland on their experiences at the Sochi Winter Olympics.

We ended the program year with our annual banquet and awards ceremony, with the keynote speech being given by 2015 AIChE President Cheryl Teich who spoke on national AIChE activities and issues and how the Institute supports all of us. Hannah Fetner, a previous winner of our four-year college scholarship, updated us on her experiences at the University of Michigan including research projects she has participated in and a year abroad studying in Germany. Laura Dietsche recognized 50+ year AIChE members Norm Lake, Bernie Meister, and Richard Heiny; along with Jeff Fox of Dow Corning who was recently named a Fellow of AIChE. Mike Molnar presented awards to Anshul Agrawal of Dow Chemical (Young Chemical Engineer of the Year), Rich Helling of Dow Chemical (Chemical Engineer of the Year) and Mike Snyder of Dow Corning (Noland Poffenberger Award). Paul Kehl presented our 2015 scholarships to Brooke Hart (four year scholarship for a high school senior planning to study chemical engineering in college) and John Worden (Michigan Tech 2015 Summer Youth Program). Thanks go to Defne Kayrak-Talay for all the hard work that went in to making the evening a big success.

The executive council of MMAICHE is making plans for our 2015/2016 program year and we are interested in your input on seminar topics of interest to you as well as other potential activities. In addition to our website listed above and the executive council contact list in this newsletter, we can also be found on Facebook at <https://www.facebook.com/Mid.Michigan.AIChE> and on LinkedIn at <https://www.linkedin.com/groups/MidMichigan-Section-American-Institute-Chemical-4971018/about>. We are also looking for additional volunteers for our educational outreach programs, so if you are interested please contact Dewey Yin or Alan Stottlemeyer (see contact information at the end of this newsletter).

Thanks again to all the past and present MMAICHE officers and volunteers who have made this such an active and vibrant section, and I look forward to another successful year.

Tom Gregory

Chair, Mid-Michigan Section of AIChE



Scenes from the Annual Spring Banquet

Photos provided by Kip Mercure

The Annual Spring Banquet was held Wednesday, May 20, 2015 at the Great Hall Convention Center in Midland. Laura Dietsche, the 2014 - 2015 Chair of the Section, presided over the evening's activities which included the presentation of awards and scholarships and introduction of the newly elected officers. The keynote address was given by Dr. Cheryl Teich, the 2015 President of the American Institute of Chemical Engineers (AIChE).



Dr. Cheryl Teich, 2015 President of AIChE

In addition to serving as the 2015 President of AIChE, Dr. Cheryl Teich is an AIChE Fellow and a Trustee of the AIChE Foundation. Previous to this, Cheryl served on AIChE's Board of Directors (2007–2009) while chairing the Executive Board of the Program Committee (2008). She is a founding member of the Process Development Division. Cheryl's day job is the Reaction Engineering Expertise Leader in Dow Chemical's Engineering Solutions Technology Center. She joined Dow during its 2009 Rohm and Haas acquisition, and recently marked her 30th anniversary with the combined company. There is a strong synergy between Cheryl's "day job" and her AIChE contributions: the ability to see common factors among disparate groups and leverage their individual strengths across organizational boundaries. Cheryl holds BS (MIT), MS (MIT), and PhD (Stevens Institute of Technology) degrees in chemical engineering. She has spent her career negotiating the interfaces between R&D, manufacturing, and business functions. She considers herself an "expert generalist" in process development, reaction engineering and problem solving.



In her remarks for the evening, Dr. Teich described the strategy that AIChE is taking to promote and support the profession of chemical engineering. This includes strengthening industry and technology groups to support diverse interests of members, aggressively using information technologies to deliver advanced products and services for members, and providing resources to promote life-long learning.

Thanks go to Kip Mercure, a long-time member and former officer of the Section, for documenting the evening's activities in the following photos.



Eric Stangland, Treasurer, makes sure everything is ready to go as members begin to arrive.



Laura Dietsche, 2014-2015 Chair of the Section, welcomes everyone to the 2015 Annual Banquet and Awards Ceremony.



Dinner is almost ready to be served.



Laura begins the formal program with a review of AIChE programs.



The evening included special recognition of members with 50 or more years of service as members of AICHE. Shown above (clockwise from the top left) are Dave Camp, Bernie Meister, Norm Lake, and Dick Heiny. Congratulations and thanks to all!



Hannah Fetner, a 2013 scholarship winner, returned this year to thank the members of the Mid-Michigan Section for helping to support her education at the University of Michigan. Here she recounts her activities with the student chapter of AIChE in Ann Arbor.

Award Recipients for 2015



Richard Helling Named Chemical Engineer of the Year

Chemical Engineer of the Year - This award is given to a distinguished chemical engineer in the Mid-Michigan Section with 20-30 years of professional experience following graduation. Publications, patents, company recognition of achievement, and other accomplishments in the field of chemical engineering are key criteria for consideration.

Michael Molnar, Chair of the Awards Committee, is shown congratulating Dr. Richard Helling on being named the 2015 Chemical Engineer of the Year. Dr. Helling richly deserves this recognition for industry-wide contributions to chemical-process life cycle analysis, and for steadfast leadership of the Mid-Michigan Section of AIChE (MMAIChE).

Dr. Helling has spent 28 years in manufacturing and process R&D positions at The Dow Chemical Company. Currently he is Associate Director of Life Cycle Analysis within the Sustainability Group of The Dow Chemical Company's Environmental, Health & Safety organization. Dr. Helling received his B.S. in engineering from Harvey Mudd College and his Sc.D. in chemical engineering from the Massachusetts Institute of Technology (MIT). Before joining Dow, Dr. Helling served as a Station Director of the David H. Koch School of Chemical Engineering Practice at MIT.

Richard Helling is well known in the profession for leading the development of disciplined methods used to quantify chemical process sustainability and environmental footprint. He has published numerous Dow reports and 10 highly-regarded journal articles on chemical-process life cycle assessment. His most recent article is "A Call for Technology Developers to Apply Life Cycle and Market Perspectives When Assessing the Potential Environmental Impacts of Chemical Technology Projects," *Industrial & Engineering Chemistry Research*, in press, 2015 (co-authored with Shawn Hunter).

Richard has also been an active leader of the Mid-Michigan Section of AIChE, serving as Chair (2011-2012) and as a regular member of the Executive Committee. In this capacity, Richard has worked with the various Committee Chairs to help organize and promote the Section's on-going activities. His contributions include leadership of the Section's Professional Development Initiative in offering Continuing Education Hours for attendance at MMAIChE seminars and tours. Thanks to Dr. Helling, these credits can now be applied toward maintaining the professional engineering license.



Anshul Agarwal Named Young Chemical Engineer of the Year

Young Chemical Engineer of the Year - This award recognizes service to AIChE, technical and professional expertise, and leadership that is superior for an early-career engineer. It is generally given to a person with approximately 4-12 years of service following graduation.

Although Anshul Agarwal recently moved away from the mid-Michigan area, he has been a very active member of MMAICChE for many years, acting as both the Membership Committee chair and the Young Professionals (YP) Committee chair. As Membership Committee chair, Anshul promoted the value of membership at meetings and in flyers and newsletter articles, he developed strategies on how to increase membership, he acted as a focal point for information on how to become a member of MMAICChE, and he followed up with those who showed interest.

As YP chair, Anshul reached out to other young ChEs in the area to help plan and execute a number of activities, including: setting up a YP seminar where MMAICChE leaders had a chance to share information about AIChE and MMAICChE, setting up various tournaments, and helping to organize a very successful beer brewing competition that has caught on with other YP and local section folks within the greater AIChE community. When Anshul realized that he would be leaving the area, he recruited a new YP chair so that the position would be filled; he has remained open to talking with other local YPs about getting involved with the MMAICChE YP group. He also wrote a job description for the Membership Committee chair position to aid in the recruitment efforts to fill this position.

Anshul completed a Ph.D. in chemical engineering at Carnegie Mellon University. He is now a member of the Process Optimization Discipline within the Engineering Sciences organization at Dow Chemical. At Dow, Anshul is developing and implementing advanced mathematical models to find optimal solutions to questions related to process and plant performance, monthly production planning, optimal resource allocation and sourcing, raw material purchasing, planning inventory volumes and locations in networks, detailed batch scheduling, strategic decisions with risk assessment, planning under uncertainty, and creating new products that meet customer specifications. Anshul is also engaged with a university professor's group to develop new technology for optimization frameworks. Anshul is a certified Six Sigma Green Belt Project Leader and an expert in the use of several advanced simulation engines and optimization platforms, including GAMS, AIMMS, iThink, MATLAB, and JMP. His responsibilities include:

- Applying process modeling and optimization methods to solve problems in Research & Development, Manufacturing, Business Product R&D, Purchasing, and Commercial functions of The Dow Chemical Company;
- Applying principles of operation research and chemical engineering to improve supply chain, manufacturing, and R&D work processes;
- Applying mathematical programming (linear, nonlinear, mixed-integer, stochastic), probability, statistical inference, and qualitative analysis for process engineering, with emphasis on design and optimization of complex large-scale nonlinear systems;
- Introducing new modeling, optimization, simulation, and forecasting tools.



Michael Snyder Receives the Noland Poffenberger Award

Noland Poffenberger Award - This award is given to a high-level manager who has shown great support of the Mid-Michigan Section by encouraging employees within the recipient's organization to participate in professional organizations such as AIChE.

Michael D. (Mike) Snyder was named the Global Director of Safety, Industrial Hygiene, and Loss Prevention for Dow Corning in December 2008. In this role, Mike is responsible for the leadership of Dow Corning's global programs in Employee Health & Safety, Emergency Preparedness, and Chemical Process Safety. He previously held roles in Corporate Environmental, Health, and Safety development, Safety leadership roles at several operational sites, and the leadership of Dow Corning's Midland Site Loss Prevention & Emergency Response organization. Mike joined Dow Corning in 1990, following manufacturing & loss prevention engineering assignments with The Dow Chemical Company. In addition, Mike has an extensive background in municipal emergency preparedness and response, currently serving as the Fire Marshal of the Auburn-Williams Fire Department. He currently is a member of the National Fire Protection Association (NFPA) Standards Council, and also is an active member on several NFPA technical committees. Mike also serves on the Center for Chemical Process Safety Advisory Board.

Mike Snyder obtained a bachelor's degree in Chemical Engineering from Cornell University, and a master's degree in Occupational Safety & Health from Columbia Southern University. He is a registered professional engineer in Michigan, a Certified Safety Professional, and has achieved recognition as a Certified Fire Protection Specialist (CFPS) through NFPA.

Mike has continually been supportive of involvement with professional associations to develop not only his own technical expertise, but also that of his employees. Throughout his career, he has not only invested his own time in professional activities but he has continually encouraged others to do likewise. He has been an advocate for professional development and has consistently supported the involvement of his employees in external activities and professional organizations across the years.

Not only does he role model this behavior by his personal participation in the National Fire Prevention Association (NFPA) and as a member of the Advisory Board for the Center for Chemical Process Safety (an organization of AIChE), but Mike encourages those who work for him to do the same. He works to insure that the engagement of his people outside of the company supplement their company responsibilities while providing them growth and development opportunities. Engagement in these external professional organizations not only develops the individual but also enhances the individual's contribution to the company's success.

As a result of Mike Snyder's support, a number of people are active in professional associations. For example:

Several employees are actively involved with the Center for Chemical Process Safety including:

- Participation on the leadership and planning committees for the Global Conference on Process Safety for the last several years.
- Participation on the CCPS Technical Steering Committee (TSC) and the Planning and Operating Subcommittee of the TSC.
- Participation and leadership on several CCPS project teams and project peer review committees.
- Participation on the Process Safety Beacon and Process Safety Moments editorial boards.

Employees also participate on Chemical Association Process Safety committees, including:

- The European Chemical Industry Process Safety Network. This is a multi-company team formed after the Buncefield oil storage facility fire to identify and share best practices for Process Safety Management (PSM). It functions as a network with an emphasis on incident sharing.
- The PSM Expert Panel that developed the Process Safety Training Standards. This also came out of the Buncefield follow up to provide some standardisation on training practices for various levels within a high hazard organisation.
- The American Chemistry Council Process Safety Committee.
- Leadership team for planning of the Michigan Safety Conference.



Paul Kehl, Director, congratulates Brooke Hart, winner of this year's college scholarship.

Chemical Engineering College Scholarships

The 2015 scholarship year for the Mid-Michigan section has officially closed. This year, the scholarship committee struggled to differentiate between a very large number of highly qualified applicants for both the Engineering Education Scholarship and Undergraduate Chemical Engineering Education Scholarship.

The Engineering Exploration Scholarship is open to students in grades 9-11 and provides an opportunity for one student from the Tri-City area or neighboring county to explore science and engineering careers through hands-on laboratory, classroom, and field experiences at the Michigan Technological University Summer Youth Program in Houghton, MI. The scholarship includes tuition, room, and board, for a one-week exploration during the summer with a \$100 travel allotment.

The Undergraduate Chemical Engineering Education Scholarship is a \$2000 scholarship awarded over 4 years to a graduating high school senior who plans to study chemical engineering at an university or college. The scholarship rewards academic performance as well as school and community involvement, and it is intended for a student who has a high probability of obtaining a chemical engineering degree and becoming a practicing engineer.

The winner this year for the Engineering Education scholarship is Jonathan Worden from Frankenmuth High School's class of 2016. Jon has a demonstrated interest in science, taking classes such as calculus, physics, chemistry, and mechanical drafting to further prepare for a

potential future in engineering. He is involved in a number of extracurricular activities and sports to have fun with his classmates, contribute to the community, and develop strong communication and teamwork skills. He has decided to use the Summer Youth Program to learn more about chemical engineering and decide if that is the future career path for him. We expect to hear more great things from Jon in the coming years.

The winner this year for the Undergraduate Chemical Engineering Education Scholarship is Brooke Hart from Swan Valley High School. Brooke is a National Honor Society member and a highly active volunteer who continually gives back to her community. Her communication skills are exemplary, and she has demonstrated superb teamwork and leadership competencies by being a member or co-captain of Swan Valley basketball and softball teams. She is passionate about getting a chemical engineering degree due to the versatility of career options it presents while allowing her to continue her interest in chemistry, physics and math .

Congratulations to the winners and heartfelt thanks to everyone who applied!

Scenes from Recent Seminars

Photos provided by Laura Dietsche

The Mid-Michigan Section has a long tradition of sponsoring informative seminars for its members. Here are some scenes from a number of recent presentations.



Margie Pierce of Sources Engineering, Inc. discusses Entrepreneurship in Engineering.



Aaron Johnson of Dow Water & Process Solutions presents his views on “Potential and Controversies of Fracking”.



Joe VanderKelen, President of SMI Snow Makers, discusses how SMI Snow Makers contributed to the Sochi 2014 Olympics.

Meet the Newly Elected 2015 - 2016 Officers

Chair – Tom Gregory

Tom Gregory, currently retired from Dow Chemical, is at the helm of Borealis Technology Solutions LLC. Tom has been a member of both AIChE and The Electrochemical Society (ECS) for 36 years and has served ECS at both the local and national level. He received a B.S. in chemical engineering from Case Western Reserve University in 1978 and an M.S. in 1979, then spent 34 years at Dow Chemical working in a variety of R&D roles ranging from bench-scale basic research to production-scale process technology development. A significant portion of his career has involved chemical process conceptualization, analysis, development, and scale-up of technologies including ceramic powder production via co-precipitation, monomer production via catalytic and electrochemical methodologies, condensation polymerization via reactive extrusion, suspension polymerization to produce unique superabsorbent polymers, polymer drying technology, recovery and purification of fermentation-derived products via electrodialysis and simulated moving bed chromatography, and biochemical processes for production of organic chemicals. He is globally-recognized for his pioneering work in rechargeable magnesium battery technology and has also been involved in development of novel lithium ion battery and fuel cell-related technology. Tom retired from Dow in 2013 and formed Borealis Technology Solutions LLC, a consulting company specializing in chemical and electrochemical process analysis, design, and scale-up and electrochemical energy generation and storage. Tom frequently serves on review panels for the National Science Foundation's Small Business Innovation Research and Partnerships for Innovation programs.

Chair Elect – Stacie Santhany

Stacie Santhany began her technical career as a co-op at Dow Chemical in 1995. She received a Chemical Engineering degree from Michigan State University in 2001. While studying at MSU, she was very active in the student chapter of AIChE and a member of the operating board. She began the first few years of her full time career in the Agricultural Process Research group where she helped to develop and commercially launch various successful Dow AgroScience (DAS) molecules. In 2007, Stacie switched focus from DAS molecules to Amines chemistry. She led the separations efforts where she gained expertise in complex distillations. This knowledge of amines chemistry eventually transitioned to Stacie leading the Ethyleneamines research and development efforts in continuous high pressure heterogeneous catalysis reactors and distillation systems. Over the course of her time in Ag Process Research and Engineering and Process Science, Stacie gained expertise in Process Scale-up, Reaction Engineering, Separations, and number of other fundamental engineering areas. In 2011, Stacie was given an opportunity to lead the LMFP (lithium manganese iron phosphate) lithium ion battery cathode materials project for Dow Energy materials (DEM). Under her leadership, DEM successfully developed high performing cathode material at low cost to manufacture. Currently, Stacie is leading the process research and development efforts for a new Dow AgroSciences pesticide.

Past Chair – Laura Dietsche

Laura Dietsche has over 25 years experience in process conceptualization and equipment design, with a focus on advancing fluid mechanics and mixing technologies. After receiving a B.S. in chemical engineering from the University of California at Berkeley in 1981, Laura spent seven years at Dow Chemical's Agricultural Sciences R&D Laboratory in Pittsburg, California working on process development from lab bench scale to plant start-ups. She returned to Berkeley for her Ph.D. (1988-1992) and, after a post-doc assignment at Lawrence Livermore National Labs, rejoined Dow in the Engineering Sciences group of Core R&D in Midland, Michigan. At Dow, Laura is known for the application of transport fundamentals and computational fluid dynamics (CFD) tools to advance chemical processing capabilities and for the design of scaled-down high-throughput research devices. Laura is a leader in the CFD community at Dow and an instructor in the Dow Mixing Technology Workshop. In addition to her professional accomplishments, Laura is involved in enhancing the quality of engineering education both as a member of the AIChE Education and Accreditation Committee and as a program evaluator and commissioner for the Engineering Accreditation Commission (EAC) of ABET. Laura was recently elected to the EAC Executive Committee. Laura was the recipient of the 2010 Mid-Michigan AIChE Chemical Engineer of the Year Award and the 2011 Gary Leach Award from AIChE, and she was elected a Fellow of AIChE in 2013.

Secretary – Bruce Holden

Bruce Holden is the current Secretary of the Section. He was appointed Acting Secretary by the Executive Committee in February of 2010 to fill a vacancy, and he was elected Secretary that year. Bruce has spent 37 years in process R&D, process engineering, and environmental services at The Dow Chemical Company. He is currently a Principal Research Scientist in the Process Separations Group of Dow's Engineering Sciences Laboratory. He is the recipient of the 2008 Doug Leng Award for excellence in engineering research at Dow, the recipient of the 2011 Mid-Michigan AIChE Chemical Engineer of the Year Award, a co-author of Section 15 on liquid-liquid extraction in the 8th edition of Perry's Chemical Engineers' Handbook, and was recently elected as an AIChE Fellow. If re-elected, Bruce will continue to serve the Section with a focus on timely communications and detailed record keeping. Bruce has B.S. and M.S. degrees in chemical engineering from Clarkson University.

Treasurer – Eric Stangland

Eric Stangland is a Principal Research Scientist in the Inorganic Materials & Heterogeneous Catalysis, Core R&D function, of The Dow Chemical Company, having joined the company in 2000. Eric began serving the Section as the Acting Treasurer in March of 2010, and was elected to the position in the 2010 election. He has previously served the Section as Membership Chair, Webmaster, and Editor of the newsletter. Eric is also active in the broader scientific community, particularly through both the Michigan Catalysis Society and the North American Catalysis Society. He serves as a Director of the AIChE Catalysis and Reaction Engineering Division. If re-elected, Eric will continue to work with the Executive Committee to fulfill the financial accounting duties of the Treasurer by providing timely and detailed financial reports. Eric has a B.S. degree from the University of Wisconsin and M.S. and Ph.D. degrees in chemical engineering from Purdue University.

Director – Shawn Feist

Shawn Feist is a Senior Research and Development Leader in Engineering and Process Science, Core R&D for The Dow Chemical Company, having joined the company in 2002. He is also responsible for leading the external technology and university portfolio for Engineering and Process Science. Before beginning his current position, Shawn was involved in new business development and financial modeling for the Dow Water & Process Solutions Business, and before that he was a member of the Process Separations Group within Dow's Engineering Sciences Laboratory. Shawn has been an active member of the local section serving as the section's Chair from 2012-2013 and in the role of Advisor since. As a Director of the section, Shawn would like to focus efforts on continuing growth of the local section, increasing collaboration with other local professional organizations, and continuing to support the organization's already strong community outreach efforts. Shawn has a B.S. in chemical engineering from the University of Minnesota.

Director – Paul Kehl

Paul Kehl moved to Mid-Michigan in 2001 where he performed technical service and development focusing on silicones. He has most recently been involved in manufacturing at Dow Corning where he was known for his technical expertise. As Director of the Section, Paul participates as a member of the Executive Committee in conducting the business of the Section. He is particularly interested in encouraging others to participate in the local section, and in pursuing efforts to grow and sustain the scholarship fund. Paul has a B.S. in chemical engineering from the University of Wisconsin.

Director – Norm Lake

Norm Lake has been an active member of the Mid-Michigan Section for many years, serving three terms as treasurer, eleven years as chair of the MTU Summer Youth Program scholarship committee, and more recently as Director of the Section and member of our scholarship committees. His career spans more than 28 years at Dow Corning in TS&D, process R&D, and as the Process Engineering representative on several Personal Care and Urethane Foam commercialization teams. More recently, he spent 5 years at Dow as a Process Engineering contractor working on a variety of Production and FM&E projects. Recognitions include an IR-100 award, 11 Dow Corning technical excellence awards, the AIChE Service to Society award, and the Boy Scouts of America Silver Beaver award. If re-elected, Norm will continue his active support of the Section as a voting member of the Executive Committee. He will encourage continuation of our scholarship programs and other community outreach activities and support efforts to make our Section relevant to chemical engineering professionals in Mid-Michigan. Norm has a BSE degree in engineering unified science and an MSE in chemical engineering from the University of Michigan.

Mid-Michigan Section Contact Information

AIChE Mid-Michigan Section 2015-2016 Officers and Committee Chairpersons

(all phone numbers have a 989 area code)

Position	Name	Address	E-mail	Phone
Chair	Tom Gregory	Borealis Technology Solutions LLC 1913 Rapanos Dr. Midland, MI 48642	tdgregory@sbcglobal.net	839-9446
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The Mid-Michigan Section Thanks our Sponsors for Their Support!

